Table A.2.23 North Field AOC 9A Summary of Boring Log and Analytical Data

Boring/ Date/ Report	Total Depth of Boring	Depth to Water[1]	Lithologic Description[2] (Observation Notes)	Maximum PID Response, ppm_v (Depth)	Sample Type[3]	Sample ID (Depth)	Analyses[4]	COC Concentrations greater than Delineation Criteria
MW180 3/17/2003 Full RFI 2nd Iteration	26.5	1	Fill: 0-26 (slight organic odor at 21-25)	43.2 (21.5-22)	Water	MW180 5/9/03	V, S, M, water quality	1,2-Dichloropropane: 7 ug/L **Benzene: 1000 ug/L** Cyclohexane: 930 ug/L Methylcyclohexane: 370 ug/L Xylenes: 2300 ug/L 2,4-Dimethylphenol: 280 ug/L 2-Methylphenol: 110 ug/L Thallium: 13.2J ug/L
S1008 1/14/03 Full RFI 2nd Iteration SWMU 20	10		Fill: 0-6.5 (brown stained at 1-1.5; gray stained at 3-4,black stained at 5-6) Clay: 6.5-10 (black stained seams at 6.5-7.5)	485 (1.5-2)	O, U, F	S1008A4 (1.5-2)	BTEX, TOL, Pb, As	**Benzene: 8.9 mg/kg** Xylenes: 190 mg/kg Lead: 2580 mg/kg TOL: 21.1 mg/kg
					O, U, F	S1008B3 (3-3.5)	BTEX, TOL, Pb, As	**Benzene: 9.7 mg/kg** Xylenes: 100 mg/kg Lead: 1560 mg/kg
S0794/MW123 7/31/02 Full RFI SWMU 20	12	0.5	Fill: 0-4: (product odor at 1-4) Peat: 4-6 Clay: 6-12	41 (2-2.5)	O, S, F	S0794A2 (0.5-1)	V, S, Pb, TOL	Lead: 5970 mg/kg TOL: 11.5 mg/kg
					O, S, F	S0794B1 (2-2.5)	V, S, Pb, TOL, SPLP Pb	*Benzene: 1.29 mg/kg (Impact to Groundwater—not applicable* Lead: 6020 mg/kg TOL: 9.1 mg/kg SPLP Lead: 0.123 mg/L
						S0794 (8-10)	Phys. Char.	
					O, S, N	S0794F2 (10.5-11)	V, S, Pb, TOL	None

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Boring/ Date/ Report	Total Depth of Boring	Depth to Water[1]	Lithologic Description[2] (Observation Notes)	Maximum PID Response, ppm_v (Depth)	Sample Type[3]	Sample ID (Depth)	Analyses[4]	COC Concentrations greater than Delineation Criteria
					Water	MW123 (11/25/02)	V, S, M, water quality	**Benzene: 260 ug/L** Unknown TICs > 100 ug/L Thallium: 13J ug/L
S0792 8/1/02 Full RFI SWMU 20	18	5	Fill: 0-4: (black stained at 0-3; Product like odor and NAPL present, sheen on core material at 2-4) Clay, Peat, and Sand: 4-18 (product-like odor at 4-10)	1695 (2-2.5)	O, U, F	S0792A3/ A4 (1-2)	V, S, M, TOL	**Benzene: 5.88 mg/kg** Xylenes: 432 mg/kg
					O, U, N	S0792C2 (4.5-5)	V, S, M, TOL	Arsenic: 43.7J mg/kg Iron: 24000 mg/kg
					O, S, N	S0792H4 (15.5-16)	V, S, M, TOL	None
S0791 8/1/02 Full RFI AOC 9A	12	4	Fill: 0-3 Clay and Sand: 4 –12	1900 (3-3.5)	O, U, F	S0791A3 (1-1.5)	V, S, M, TOL	None
					O, U, F	S0791B3 (3-3.5)	V, S, M, TOL	None
					O, S, N	S0791F4 (11.5-12)	V, S, M, TOL	None
H0321 8/18/99 2nd OWSS (NF3)	12	3	Fill: 0-7 (odor at 3-7) Clay: 7-12	0	Water	H0321	V, S, M	**Benzene: 34 ug/L** Arsenic: 17.3 ug/L Lead: 24.1 ug/L
H0319 8/17/99 2nd OWSS (NF3)	12	3	Fill:0-6: (black staining at 3-5, odor) Clay: 6-12 (black staining at 6-7)	130 (7-8)	Water	H0319	V, S, M	**Benzene: 1400 ug/l** 2,4 Dimethylphenol: 11000 ug/l 2-Methylphenol: 3100 ug/l m & p Cresols: 6100 ug/l Lead: 662 ug/l
H0317 8/17/99 2nd OWSS (NF3)	12	6	Fill: 0-2 Clay and Sand: 2-12	0	Water	H0317	V, S, M	Lead: 16.6 ug/L

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Boring/ Date/ Report	Total Depth of Boring	Depth to Water[1]	Lithologic Description[2] (Observation Notes)	Maximum PID Response, ppm_v (Depth)	Sample Type[3]	Sample ID (Depth)	Analyses[4]	COC Concentrations greater than Delineation Criteria
HP0090 9/2/97 1st Groundwater SWMU 20	10	9	See SB0040	268	Water	HP0090A	V, S, Pb	**Benzene: 220 ug/l** Benzenethiol: 360 ug/l Xylenes: 2500 ug/l 2,4-Dimethylphenol: 680 ug/l 2-Methylnaphthalene: 270 ug/l 2-Methylphenol: 37 ug/l Naphthalene: 470 ug/l Lead: 331000 ug/l
SB0040 10/16/95 1st Soils SWMU 20	6	NE	Fill:0-4.5: (staining, petroleum odor at 0.5-4) Peat/Meadow Mat: 4.5-6	853 (2-4)	O, U, F	SB0040SB (2-4)	V, S, M, TEL	**Benzene: 3.4 mg/kg** Benzenethiol: 73E mg/kg Xylenes: 88 mg/kg Lead: 3030 mg/kg TEL: 6.26 mg/kg
UO20002 10/16/95 1st Soils SWMU 20	4	NE	Fill:0-3.5: (petroleum odor at 1-2) Meadow Mat: 3.5-4	395 (0-2)	None	--		
NF10 7/7/92 AOC 9A	14	6	Fill: 0-11 (some cinder ash at 0-0.5) Sand: 11-12 Clay: 12-14	170 (1.5-3.5)	Water	NF10 10/1/02	V, S, M, water quality	**Benzene: 650 ug/L** Xylenes: 1200 ug/L

NOTES:
Shaded rows indicate samples collected from nearby SWMUs and/or AOCs
ppm_v = parts per million (volume basis)
All depths referenced on this summary table are in feet below the ground surface.
PID = Photoionization detector.
ID = Identifier.
mg/kg = milligrams per kilogram (equivalent to parts per million).
µg/L = micrograms per liter (equivalent to parts per million).
[1]Depth to water as observed during borehole advancement.
[2]"Fill" encountered within the completed borings was characteristically described as an asphalt layer (typical) underlain by a heterogeneous gravel to clay mixture of unconsolidated materials, ranging in color from tan to gray with occasional construction debris (e.g., brick) present. In some locations, the fill material is further characterized by containing a slag or beaded material, in which case it is noted within the table. Also noted on the table are any other olfactory or visual observations that indicate potential petroleum-type impacts within the fill unit were observed.
[3]P – property boundary, O – on-site, U – unsaturated, S – saturated, F – fill, N – native. "None" indicates that no sample was collected.
[4]V – VOCs, S – SVOCs, M – metals, Pb – lead, TOL – total organic lead, TEL – tetraethyl lead, TPH – Total Petroleum Hydrocarbons.
[5]Estimated values (J) are not included if they are below delineation criteria.